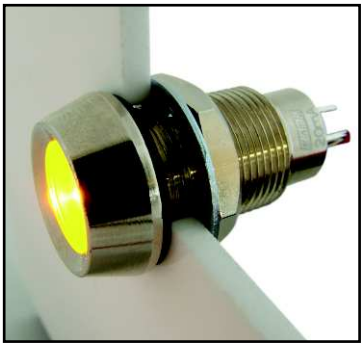
PROFESSIONAL LED INDICATORS Ø12.7mm Mounting



511 SERIES

PACK QUANTITY = 10 PIECES

FEATURES

- **Robust bright nickel plated brass housing**
- **Sealed to IP67**
- **Flying lead terminations available**
- **Suitable for high vibration applications**
- **Internal reverse protection diode fitted as standard in all voltage models.**

SPECIFICATION

Ordering Information & Typical Technical Characteristics (Ta = 25°C)

Mean Time Between Failure = 100,000 Hours. Luminous intensity figures refer to the unmodified discrete LED.

PART NUMBER	COLOUR	LENS	VOLTAGE DC (Vdc) Vopr	CURRENT DC (mA) Iopr	LUMINOUS INTENSITY Iv@20mA (mcd)	WAVE LENGTH λp (nm)	OPERATING TEMP Topr	STORAGE TEMP Tstg	RoHS 2002/95/EC
HIGH INTENSITY									
511-501-21	Red	Colour Diffused	12	19	11000	643	-40 ~ +95^	-40 ~ +100	Yes
511-521-21	Yellow	Colour Diffused	12	19	16000	591	-40 ~ +95^	-40 ~ +100	Yes
511-532-21	Green	Colour Diffused	12	20	23000	527	-40 ~ +95^	-40 ~ +100	Yes
511-930-21	Blue	Colour Diffused	12	20	7000	470	-40 ~ +95^	-40 ~ +100	Yes
511-997-21	Cool White	Colour Diffused	12	20	14000	see below	-40 ~ +95^	-40 ~ +100	Yes
511-501-23	Red	Colour Diffused	24-28	20	11000	643	-40 ~ +95^	-40 ~ +100	Yes
511-521-23	Yellow	Colour Diffused	24-28	20	16000	591	-40 ~ +95^	-40 ~ +100	Yes
511-532-23	Green	Colour Diffused	24-28	20	23000	527	-40 ~ +95^	-40 ~ +100	Yes
511-930-23	Blue	Colour Diffused	24-28	20	7000	470	-40 ~ +95^	-40 ~ +100	Yes
511-997-23	Cool White	Colour Diffused	24-28	20	14000	see below	-40 ~ +95^	-40 ~ +100	Yes
UNITS			**Vdc**	**mA**	**mcd**	**nm**	**°C**	**°C**	

Other voltages AC/DC available. Please contact our Technical Sales.

^ = Products must be derated according to the derating information. Each derating graph refers to specific LEDs.

997F-C	*Typical emission colour cool white			
x	0.245	0.361	0.356	0.264
y	0.229	0.385	0.351	0.220

Intensities (Iv) and colour shades of white (x,y co-ordinates) may vary between LEDs within a batch.

How to Order:

website: www.marl.co.uk • email: sales@marl.co.uk •

• Telephone +44 (0)1229 582430 • Fax: +44 (0)1229 585155

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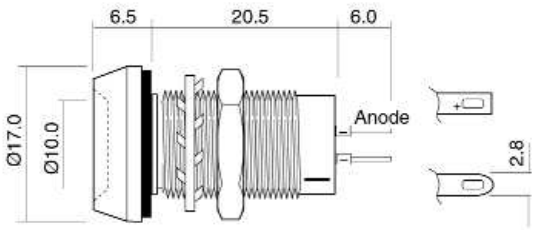
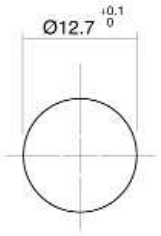
SAMPLES AVAILABLE

511 Series





Mounting Hole

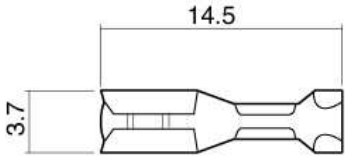
Dimensions in mm (Typical)
Not to scale

Anode termination indicated by red sleeve
Mounting hole to be clean and burr free

MATERIALS

Body	Brass to BS 2874 CZ121
	Nickel plated to BS 1224
Nut	Brass to BS 2874 CZ121
	nickel plated to BS 1224
Panel Seal	Viton
Termination	Brass to BS 2874 CZ108
	Copper flash undercoat with silver flash finish
Lock Washer	Zinc plated steel
Fresnel lens	Polycarbonate
Encapsulation	PC5430 resin

PUSH-ON CONNECTORS



925-000-00 is brass tin plated.
For use with 511 series lamps.

Dimensions in mm (Typical)
Not to scale

TECHNICAL CHARACTERISTICS

SERIES	MAXIMUM POWER DISSIPATION	MAXIMUM REVERSE VOLTAGE	PANEL CUTOUT	NUT MOUNTING TORQUE	MINIMUM MOUNTING CENTRES	MIN/MAX. PANEL THICKNESS
511	1000	1000	12.7	1.0	x,y=19.5	1.5-8.0
	mw	Vdc	mm	Nm	mm	mm

* = current version • = voltage version

OPTIONAL FLYING LEAD TERMINATIONS

ORDER CODE SUFFIX	SUPPLY VOLTAGE	WIRE COLOUR	WIRE LENGTH	NO/DIAMETER OF CONDUCTORS	DIAMETER OVER INSULATION	COMMENTS
15	DC Products	Red-anode / Black-cathode	150mm	19/0.15mm	1.2mm	Customised lengths available
15	AC Products	Brown-live / Blue-neutral	150mm			
19	DC Products	Red-anode / Black-cathode	1000mm			
19	AC Products	Brown-live / Blue-neutral	1000mm			

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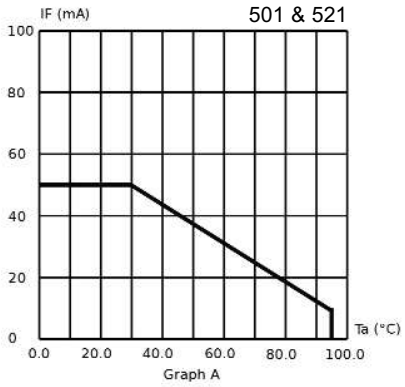
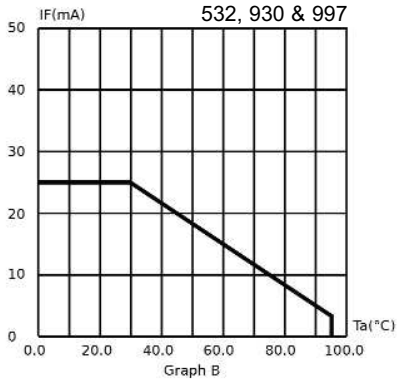
DERATING INFORMATION





ALSO AVAILABLE

Part numbers also available in the 511 Series:

PART NO.	COLOUR	VOLTAGE DC (Vdc) Vopr
511-501-04	Red	20mA
511-501-04-15	Red	20mA
511-501-13	Red	20mA DC RP
511-501-22	Red	24 Vdc
511-501-22-15	Red	24 Vdc
511-501-22-19	Red	24 Vdc
511-501-24	Red	48 Vdc
511-501-25	Red	110 Vdc
511-501-41	Red	8 Vdc
511-501-48	Red	60 Vdc
511-501-53	Red	50 Vdc
511-501-72	Red	24 Vac
511-501-75	Red	110 Vac
511-501-75-13	Red	110 Vac
511-501-75-15	Red	110 Vac
511-501-76	Red	230 Vac
511-501-76-15	Red	230 Vac
511-503-22	Red	24 Vdc
511-503-23	Red	28 Vdc
511-503-72	Red	24 Vac
511-503-75	Red	110 Vac
511-503-76-15	Red	230 Vac
511-509-22	Yellow	24 Vdc
511-509-24	Yellow	48 Vdc
511-509-55	Yellow	130 Vdc
511-509-72	Yellow	24 Vac
511-509-75	Yellow	110 Vac
511-509-76-15	Yellow	230 Vac
511-512-22	Green	24 Vdc
UNITS		

PART NO.	COLOUR	VOLTAGE DC (Vdc) Vopr
511-512-23	Green	28 Vdc
511-512-25	Green	110 Vdc
511-512-72	Green	24 Vac
511-512-75	Green	110 Vac
511-512-76-15	Green	230 Vac
511-521-04	Yellow	20mA
511-521-04-15	Yellow	20mA
511-521-22	Yellow	24 Vdc
511-521-22-15	Yellow	24 Vdc
511-521-24	Yellow	48 Vdc
511-521-41	Yellow	8 Vdc
511-521-48	Yellow	60 Vdc
511-521-72	Yellow	24 Vac
511-521-75	Yellow	110 Vac
511-521-75-15	Yellow	110 Vac
511-521-76-15	Yellow	230 Vac
511-523-22	Red	24 Vdc
511-532-04	Green	20mA
511-532-04-15	Green	20mA
511-532-22	Green	24 Vdc
511-532-22-15	Green	24 Vdc
511-532-23-51	Green	28 Vdc
511-532-24	Green	48 Vdc
511-532-25	Green	110 Vdc
511-532-25-11	Green	10mA
511-532-26-15	Green	230 Vdc
511-532-41	Green	8 Vdc
511-532-46	Green	35 Vdc
511-532-46-50	Green	60 Vdc
UNITS		

PART NO.	COLOUR	VOLTAGE DC (Vdc) Vopr
511-532-48	Green	60 Vdc
511-532-72	Green	24 Vac
511-532-75	Green	110 Vac
511-532-76-15	Green	230 Vac
511-532-77-15	Green	125 Vac
511-582-20-50	Yellow	5/6 Vdc
511-805-22	Red	24 Vdc
511-811-22	Yellow	24 Vdc
511-814-22	Green	24 Vdc
511-930-22	Blue	24 vdc
511-930-22-15	Blue	24 Vdc
511-930-24	Blue	48 Vdc
511-930-25	Blue	110 Vdc
511-930-48	Blue	60 Vdc
511-997-04-50	White	20mA
511-997-22	White	24 Vdc
511-997-22-15	White	24 Vdc
511-997-24	White	48 Vdc
511-997-25	White	110 Vdc
511-997-48	White	60 Vdc
511-997-53	White	50 Vdc
511-997-75	White	110 Vac
511-997-75-15	White	110 Vac
511-997-76-15	White	230 Vac
UNITS		

The products listed above illustrate all of the options available to order. These products may have custom modifications that alter their operation beyond the generic information contained within this datasheet. Please contact sales for further information.

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